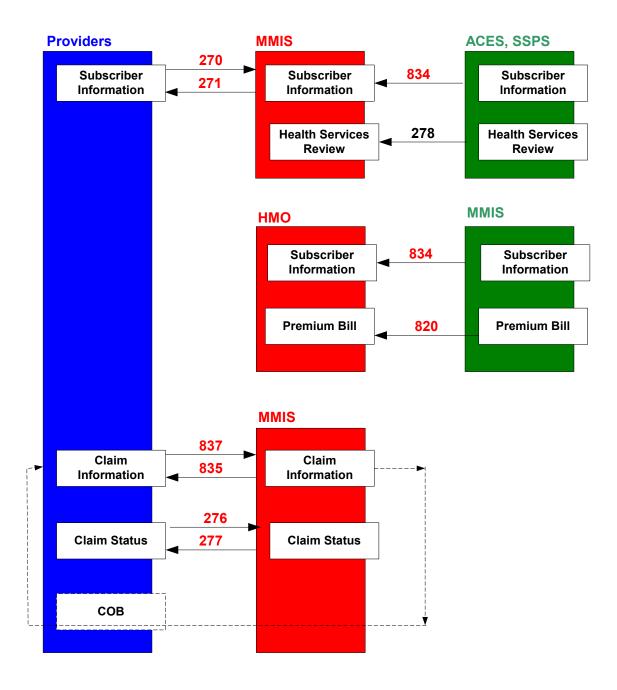
Mapping Preparation

This is a draft of instructions for Data TAG members preparing to map legacy fields to HIPAA transactions, using the OnlyConnect tool. We can be flexible about how this is going to work. This will serve as a guideline to get started.

As an example of what the HIPAA transactions are, following is a diagram showing the flow of MMIS HIPAA transactions. The first/blue column represents transaction to and from any providers. The second/red column represents transactions to and from any entity acting as a payer. The third/green column represents transactions to and from any entity acting as a sponsor.



STEP ONE: Load Legacy Records into Tool

We need the layout of the legacy records to map against. For example, for MMIS we loaded all of these record to do all the transactions:

HIPAA Transactions Used	MMIS Legacy Records
834, 270, 271, 278, 820	RECIP-ELIG-FILE
834, 270, 271, 278, 820	PLAN-FILE
834, 270, 271, 278	PRIOR-AUTHORIZATION
834, 270, 271, 278	PROCEDURE-MASTER
834, 270, 271, 278	DIAGNOSIS-MASTER
837, 835, 276, 277	MEDICAL-CLAIM
837, 835, 276, 277	INSTITUTIONAL-CLAIM
837, 835	PROC-DIAG-DRUG
835	PROV-CHARGE-FILE
all	PROV-FILE

For each legacy record, we need the following columns:

In an EXCEL file for each field:

- 1. FIELD NUMBER
- 2. FIELD NAME
- 3. FIELD DESCRIPTION (if available)
- 4. DATA TYPE: either in SQL or COBOL data formats
- 5. FIELD LENGTH IN BYTES
- 6. WHETHER REQUIRED UPON INPUT, i.e., if translating from HIPAA to legacy, is the legacy field required?
- 7. WHETHER ALWAYS PRESENT UPON OUTPUT, i.e., if translating from legacy to HIPAA, will the legacy field always contain data? (for cases where the HIPAA field is required)

Where there are multiple occurrences of a field, enter them each on their own row with a 1, 2, 3, appended to the field name. No group or redefinition names, only the fields as they will probably be mapped.

Probably your DBAs are best suited to do this. Columns 1-5 probably can be extracted from your system database. But columns 6-7 will need to be filled in by a system analyst/expert.

Email the files, with the system name, to Yong Ju at yongjuli@sierrasystems.com

STEP TWO: Learn About the HIPAA Transaction

Before coming the mapping session:

- [1] Read the "Data Overview" sections of the HIPAA Implementation Guide.
- [2] Read the Mapping Report for MMIS for the relevant transaction, to see what your goal will look like. E.g., "MMIS to 270" which has all HIPAA fields, not the report that has "Mapped Fields Only" on the title.

STEP THREE: Come to Mapping Sessions

Pick one or two people who know most about the legacy fields related to the transaction being mapped.

Schedule time with either Francine or Yong Ju to do the actual mapping. This must take place in the "Lab" on the 4th floor of Building 1, since that's where we're set up to access the tool.

An 837 mapping might take 10 hours, whereas a 276 mapping might take 3 hours. Schedule 2-4 hour sessions.

STEP FOUR: Review the Reports

After the mapping sessions, we will send you reports, both HIPAA to legacy and legacy to HIPAA. Review these with relevant parties and answer open questions. When you think you're ready to finalize the mapping, schedule another brief final meeting with Francine or Yong Ju (try to switch to the other person than the one who did your initial mapping).

Yong Ju will email you any reports you ask for, simply tell her which reports (see description of reports below.

We have come up with a way to email reports, using an ACCESS viewer called SnapShot. ACCESS 2000 comes with this viewer. Anyone who doesn't have that (or any) version of ACCESS can download the viewer free from the web at: http://www.microsoft.com/accessdev/articles/snapshot.htm

All mapping reports will be available on MAA01a//J:\HRC\Mapping Reports. We will update this directory every Friday afternoon with all new work that has been done that week.

Description of Mapping Reports

Here's a list of the four types of reports you will find:

- **HIPAA Transaction to Legacy:** For each system+transaction (e.g., MMIS 835) there are two reports that show HIPAA fields on the left and legacy fields on the right:
 - o "**HIPAA 999 to XXXX":** A long report showing **all** HIPAA transaction fields on the left and any corresponding comment or mapped legacy field on the right, e.g., "HIPAA 835 to MMIS". This report will help you see what are all the available fields in the HIPAA transaction.
 - "HIPAA 999 to XXXX Mapped Fields Only": A shorter report showing only the HIPAA transaction fields that have a corresponding comment or mapped legacy field, e.g., "HIPAA 835 to MMIS Mapped Fields Only". This report will show you what fields have so far been mapped to the HIPAA transaction.
- **Legacy Records to HIPAA:** For each system, there are two reports with legacy fields listed on the left and HIPAA fields on the right:
 - "XXXX to HIPAA": A long report showing all legacy records and fields on the left and any corresponding mapped HIPAA field on the right, e.g., "MMIS to HIPAA". This report will help you analyze whether any critical legacy fields should be mapped to HIPAA if they are not currently mapped to HIPAA yet.
 - o "XXXX to HIPAA Data Length Problems": A shorter report showing only the legacy fields that are mapped to HIPAA fields, and where the HIPAA length is longer than the legacy length, e.g., "MMIS to HIPAA Data Length Problems". This report will help you identify where legacy fields need to be made longer so as not to truncate an incoming HIPAA field that's longer than the current legacy field.

Comment Types: For the HIPAA to Legacy reports, the legend on the last page explains the comment types, although not every comment fits into these categories well. The "translation" comment type is for information only, if you want to understand more about the HIPAA transaction and translation. All other comment types should be analyzed by interested parties.

Feel free to contact me any time, and send feedback.

phone: 360-220-6489 (area code needed)

email: francine4us@yahoo.com

"HIPAA 999 to XXXX" or "HIPAA 999 to XXXX Mapped Fields Only":

χiew ≺	Window Help	음							
Pos#	# SegID	HIPAA Name	DL	Reg	File	Field	DL	Comment	Comment Type
020	TRN04	Trace Assigning Entity Additional Identifier	AN30	v				Get from 270 Loop 2000C TRN03	Match Back
80	MINI	Subscriber Name		Ж					
030	NMN	Subscriber Name		~					
8	NM101	Entity Identifier Code	ID3	œ				Hard Code "IL"	Translation
8	NM103	Subscriber Last Name	AN35	v	Recip-Elig-File	RECIP LAST-NAME	X(13)	Parse into <last>, <first> <mi></mi></first></last>	Translation
8	NM104	Subscriber First Name	AN25	S	Recip-Elig-File	RECIP FIRST-NAME	(6) (6)		
8	NM105	Subscriber Middle Name	AN25	S	Recip-Elig-File	RECIP-MIDDLE-INIT	X(1)		
8	NM108	Identification Code Qualifier	ID2	v				Send 'MI" with recip-client-ID	Translation
030	NM109	Subscriber Primary Identifier	AN80	s	Recip-Elig-File	RECIP-CLIENT4D	(60)X		
040	REF	Subscriber Additional Identification		s				Mutiple REF segments for different IDs.	Translation
040	REFO	Reference Identification Qualifier	ID3	œ				Send "3H" with recip-case-number (optional); if pat acct # was recid in 270, send E J" with it (recid); send "SY" with SSN (opt); send "HJ" with ID card number (opt).	HIP A.A. Required
040	REF02	Subscriber Supplemental Identifier	AN30	œ	Recip-Elig-File	RECIP-CASE-NUMBER	X(11)		
040	REF02	Subscriber Supplemental Identifier	AN30	œ	Medical-Claim	PATIENT-ACCT- NUMBER	X(20)		
040	REF02	Subscriber Supplemental Identifier	AN30	œ	Recip-Elig-File	SOC-SEC-NUMBER	(60)6		
8	× 3	Subscriber Address		s					
8	N 301	Subscriber Address Line	ANSS	œ	Recip-Elig-File	RECIP -ADDR-LINE-1	X(25)		
8	N 302	Subscriber Address Line	AN55	S	Recip-Elig-File	RECIP -ADDR-LINE-2	X(20)		
8/28/	8282001 9:11:26 AM	26 AM			HIPAA 271	HIPAA 271 to MMIS mapped fields only	фио		Page 4 of 13

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Column Headings:

Pos# = This corresponds to the segments' positions within the transaction, as used in the HIPAA Implementation Guides.

SegID = The segment and field number which identifies each HIPAA data element.

HIPAA Name = The name of the data element in the HIPAA Guide.

DT = The first "DT" column is the data type and length of the HIPAA data element: AN=alphanumeric, ID=coded value, R=real number.

Req = This shows whether the HIPAA field is "R"equired or "S"ituational. If situational, the HIPAA Guide might describe the conditions under which the field is required, so the Guide must be consulted.

File = The name of the legacy file being mapped.

Field = The name of the legacy field being mapped.

DT = The second "DT column is the data type and length of the legacy field. If in COBOL format, X(n) is alphanumeric, 9(9) is numeric, S9(7)V99 is a signed number with 7 digits to the left of the decimal point and 2 digits after.

Comment = Various types of comments to explain how to translate between the legacy system and HIPAA.

Comment Type = The type of comment is a way to pull out certain types of issues identified in the comments. There is a legend explaining each comment type on the last page of every report.

Mapping Preparation.doc

Column Headings:

File = The name of the legacy file being mapped.

Field = The name of the legacy field being mapped.

DT = The first "DT column is the data type and length of the legacy field. If in COBOL format, X(n) is alphanumeric, 9(9) is number with 7 digits to the left of the decimal point and 2 digits after.

Pos# = This corresponds to the segments' positions within the transaction, as used in the HIPAA Implementation Guides.

SegID = The segment and field number which identifies each HIPAA data element.

HIPAA Name = The name of the data element in the HIPAA Guide.

DT = The second "DT" column is the data type and length of the HIPAA data element: AN=alphanumeric, ID=coded value, R=real number. Req = This shows whether the HIPAA field is "R"equired or "S"ituational. If situational, the HIPAA Guide might describe the conditions under which the field is required, so the Guide must be consulted.

Package Pack		MMIS to HIE							
Predict	REPORT -		AA Da	ta Lengtl	ı Pı	roble	тѕ		
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MMIS to HIPAA Data Length Problems									
	8/28/2001 5:21:00 PM		MMUS	to HIPAA Data Le	ngth Pr	oblems		Page	1 of 23

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Column Headings:

File = The name of the legacy file being mapped.

Field = The name of the legacy field being mapped.

DT = The first "DT column is the data type and length of the legacy field. If in COBOL format, X(n) is alphanumeric, 9(9) is numeric, S9(7)V99 is a signed number with 7 digits to the left of the decimal point and 2 digits after.

Transaction = Which transaction(s) the legacy field is mapped to, for example, the provider name is mapped to several HIPAA fields (billing prov, service prov, etc.) in multiple HIPAA transactions. Pos# = This corresponds to the segments' positions within the transaction, as used in the HIPAA Implementation Guides.

SegID = The segment and field number which identifies each HIPAA data element.

HIPAA Name = The name of the data element in the HIPAA Guide.

DT = The second "DT" column is the data type and length of the HIPAA data element: AN=alphanumeric, ID=coded value, R=real number. Reg = This shows whether the HIPAA field is "R"equired or "S"ituational. If situational, the HIPAA Guide might describe the conditions under which the field is required, so the Guide must be consulted.

List of All MMIS Reports:

MMIS to HIPAA

MMIS to HIPAA Data Lenth Problems

HIPAA 270 to MMIS

HIPAA 270 to MMIS mapped fields only

HIPAA 271 to MMIS

HIPAA 271 to MMIS mapped fields only

HIPAA 276 to MMIS

HIPAA 276 to MMIS mapped fields only

HIPAA 277 to MMIS

HIPAA 277 to MMIS mapped fields only

HIPAA 820 to MMIS

HIPAA 820 to MMIS mapped fields only

HIPAA 834 to MMIS

HIPAA 834 to MMIS mapped fields only

HIPAA 835 to MMIS

HIPAA 835 to MMIS mapped fields only

HIPAA 837D to MMIS

HIPAA 837D to MMIS mapped fields only

HIPAA 837I to MMIS

HIPAA 837I to MMIS mapped fields only

HIPAA 837P to MMIS

HIPAA 837P to MMIS mapped fields only

Other systems will be using fewer transactions than MMIS.

STEP FIVE: Data Analysis

The purpose of doing the above data mapping is to use these reports as a starting point for further analysis. Some of the questions that need to be answered are:

- 1. Is it possible to create a valid HIPAA transaction from the data in this system? In other words, can we retrieve or derive all HIPAA required data elements? If not, system analysts will need to evaluate whether to enhance your system, or convert to using MMIS, or some other option. To answer this question, use the "HIPAA 999 to XXXX Mapped Fields Only" reports, in combination with the relevant HIPAA Guide.
- 2. Is there a place in the HIPAA transaction for all legacy fields that need to be transmitted? To identify what has already been mapped,

- use the "XXXX to HIPAA" report. Then email the unmapped field name and field description and how it's used to Francine to research.
- 3. Whenever translating from HIPAA to a legacy record, do any of the legacy fields need to be longer? With the HIPAA regulations, it is illegal to truncate any incoming data. The HIPAA field lengths are usually longer than legacy field lengths. To find where the HIPAA length is longer than the legacy lengths, use the "XXXX to HIPAA Data Length Problems" report. But each field needs to be researched before knowing whether you really need to lengthen the legacy field. For example, in MMIS the ICD9 code is 7 bytes, but the corresponding HIPAA field is 30 bytes. The HIPAA field is longer because that same field is used not just of ICD9, but for many other kinds of healthcare codes. Also the authors wanted to accommodate any future increases in length. But since we are fairly certain that we only need a 7 byte ICD9 code as far as we know, we wouldn't worry about making the legacy field longer.
- 4. What "downstream" changes must be considered as a result of changing the legacy system to accommodate HIPAA? For example, given new fields and making fields longer in MMIS to accommodate HIPAA, what corresponding changes must be made in history files? The OnlyConnect tool is being enhanced so that we can map a "primary" legacy record to a "secondary" legacy record (or records from two different systems), e.g., MMIS RECIP-ELIG-FILE to the MMIS EDB file.